

I. AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (currently amended) A lightweight portable apparatus for producing simultaneous rotating and linearly reciprocating motion and transmitting such motion to a suitable self stimulation masturbation device, said apparatus comprising:
 - a power transmission assembly including a drive shaft;
 - connection means associated with the drive shaft adapted to enable rotatable connection of the drive shaft to an external rotating power source; and
 - attachment means affixed to the distal end of said drive shaft and adapted to attach to and transmit motion from the drive shaft to a selected suitable self stimulation device; ~~and~~
 - ~~optionally, a stand-off assembly, adapted to keep the operating components of the power transmission assembly and the stimulation device safely away from the user;~~said power transmission assembly comprising,
 - a linear actuation assembly operatively coupled to ~~adapted to receive rotary motion from~~ the drive shaft; and
 - rotary energy transmission means associated with said drive shaft to transmit rotary energy from the drive shaft to the linear actuation assembly;said linear actuation assembly comprising:
 - a transmission fork fixedly attached to said drive shaft; and
 - a cammed shuttle connected to said transmission fork and adapted to receive rotational energy therefrom,
 - a cam follower ~~fixedly mounted to~~ engage with said cammed shuttle ~~and to~~ induce linear reciprocation of the shuttle within a confined space as it ~~simultaneously~~ rotates.
2. (previously presented) The apparatus according to claim 1, wherein the power transmission assembly includes a gearbox assembly containing at least two gears and the linear actuation assembly includes a clutch assembly.

3. (previously presented) The apparatus according to claim 1, wherein the attachment means includes a universal adapter suitable to receive and attach to a multiplicity of self stimulation devices.
4. (currently amended) The apparatus according to claim 1, wherein a stand-off assembly is included adapted to safely separate the user from the operating components of the power transmission assembly and the stimulation device and comprises a tube adapted to be secured in place at the distal end of the power transmission assembly.
5. (previously presented) The apparatus according to claim 1, wherein the linear actuation assembly comprises:
 - a generally tube-shaped outer protective transmission housing connected to and surrounding said drive shaft and directly associated therewith;
 - a drive train mechanism also within said transmission housing and adapted to receive rotary motion from the drive shaft;
 - an oscillating shuttle adapted to fit within the transmission housing and to move linearly therein, said shuttle having at least one cam groove cut into the outer surface thereof;
 - at least one cam follower fixedly mounted on the transmission housing and adapted to engage said at least one cam groove in the shuttle and thereby induce linear reciprocation of the shuttle following the profile of the cam groove when the shuttle rotates;
 - a rotatable transmission fork located within the linear shuttle and fixed in place laterally relative to the transmission housing and fixedly attached to said second means to receive rotational energy therefrom;

said transmission fork being adapted such that rotation of the laterally fixed transmission fork is transmitted to the shuttle, but the shuttle is still free to move linearly within the transmission housing.

6. (currently amended) A lightweight portable apparatus for producing simultaneous rotating and linearly reciprocating motion and transmitting such motion to a suitable self stimulation masturbation device comprising:

a power transmission assembly including a drive shaft;

connection means associated with the drive shaft to enable rotatable connection of the drive shaft to an external rotating power source and

a universal adapter affixed to the distal end of the power transmission assembly so as to move in synchrony with the active components of said power transmission assembly, said universal adapter being adapted to connect with and transmit ~~the~~ those movements to a suitably selected stimulation device, ~~and~~

~~optionally, a stand-off assembly, adapted to keep the operating components of the power transmission assembly safely away from the user,~~

said power transmission assembly comprising

a generally tube-shaped outer protective transmission housing

a drive shaft within said transmission housing and directly associated therewith;

a drive train mechanism ~~also~~ within said transmission housing and adapted to receive rotary motion from the drive shaft;

second means associated with said drive shaft to transmit rotary energy from the drive shaft to the drive train mechanism;

said drive train mechanism comprising

~~an oscillating~~ a shuttle adapted to fit within the transmission housing and to move linearly therein, ~~said shuttle having at least one groove cut into the outer surface thereof; at least one cam follower fixedly mounted on the transmission housing and adapted to engage a groove in the linear shuttle and thereby induce linear reciprocation of the shuttle following the profile of the groove when the shuttle rotates;~~

a rotatable transmission fork coaxially coupled with ~~located within the linear~~ said shuttle and connected ~~fixed in place laterally relative to the transmission housing and fixedly~~ attached to said second means to receive rotational energy therefrom;

said transmission fork being adapted such that rotation of the laterally fixed transmission fork is transmitted to the shuttle, ~~but the~~ while said shuttle is ~~still~~ free to move linearly within the transmission housing, and

~~said stand-off assembly comprising~~
~~a tube adapted to be secured in place on the distal end of the protective transmission housing of the power transmission assembly.~~

7. (currently amended) The device according to claim 6, further comprising a stand-off assembly securable on the distal end of the protective transmission housing of the power transmission assembly and adapted to safely separate the user from the operating components of the power transmission assembly and the stimulation device. ~~wherein said stand-off assembly for the male configuration is longer than that for the female configuration.~~
8. (previously presented) The device according to claim 6, wherein a transmission extension is fixedly connected inside the distal end of the shuttle and extending outside the shuttle, said connection being by way of a clutch assembly, including a compressible elastomer o-ring and a hard, solid clutch washer such that when compressed by the clutch washer, the o-ring will expand radially outwards to create frictional contact with the inside of the shuttle.
9. (previously presented) The device according to claim 8, wherein the clutch assembly includes a clutch base attached rigidly to the top of the transmission extension and a clutch screw threaded into said clutch base where the amount of frictional contact between the 0-ring and the clutch washer is adjusted by threading the clutch screw into the clutch base.

10. (previously presented) The device according to claim 1, wherein the action of the shuttle is electromagnetically induced.
11. (previously presented) The device according to claim 1, wherein the action of the shuttle is entirely mechanically induced.
12. (previously presented) The device according to claim 1, wherein the transmission and shuttle assemblies are made longer and larger radially such that the shuttle itself is capable of carrying a male masturbation sleeve internal to that component as well as being adaptable to actuating female devices by way of a reducing adapter.
13. (currently amended) A device according to claim 1, wherein the stand-off assembly further comprises a stand-off extender adapted to slip over the outside of the stand-off tube to enable the user to linearly position the masturbation device within the overall assembly;
said stand-off extender being adapted to be locked in place after adjustment.
14. (previously presented) The device according to claim 13, wherein said stand-off assembly for the male configuration is longer than that for the female configuration.
15. (Canceled).
16. (new) A device useful for self stimulation and masturbation and operatively coupleable with a stimulation device comprising:

a means for linearly motivating said stimulation device; and

a means for rotatingly motivating said stimulation device,

wherein said means for linearly motivation and said means for rotatingly motivation occurs simultaneously thereby causing a simultaneous reciprocating and rotating motion of the stimulation device.
17. (new) The device of claim 16 wherein said stimulation device is configured primarily for

female use.

18. (new) The device of claim 16 wherein said stimulation device is configured primarily for

male use.